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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-09-23-59** **Date: 13-07-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads and Footpath in Ward No.5.
Agency	:	Sri.Suresh.K, No:06, Ananthpura Village, Singanayakanahalli(P), Yelahanka, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11) 1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	11-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.05%	_
2	Finess by Air permeablity method (m^2/kg,Min)	293.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	255 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2019-09-23-59** **Date: 08-08-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads and Footpath in Ward No.5.
Agency	:	Sri.Suresh.K, No:06, Ananthpura Village, Singanayakanahalli(P), Yelahanka, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	11-07-19
Environmental Conditions during test	:	Temperature: 26˚C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-23-59** **Date: 13-07-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads and Footpath in Ward No.5.
Agency	:	Sri.Suresh.K, No:06, Ananthpura Village, Singanayakanahalli(P), Yelahanka, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	10-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	424	424	2.8	97.2	90-100
3	20 mm	5857	6281	41.9	58.1	30-70
4	10 mm	4228	10509	70.1	29.9	10-35
5	4.75 mm	4226	14735	98.2	1.8	0-5
6	Pan	265	15000	100.0	0	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-09-23-59** **Date: 13-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.66	_
4	Bulk Density(Loose) (Kg/l)	1.59	_
5	Bulk Density(Compacted) (Kg/l)	1.54	_
6	Water Absorption(%)	0.22	_

Note:
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Lab ID	:	**CP-2019-09-23-59** **Date: 13-07-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads and Footpath in Ward No.5.
Agency	:	Sri.Suresh.K, No:06, Ananthpura Village, Singanayakanahalli(P), Yelahanka, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	10-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	10-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	424	424	2.8	97.2	90-100
3	20 mm	5857	6281	41.9	58.1	30-70
4	10 mm	4228	10509	70.1	29.9	10-35
5	4.75 mm	4226	14735	98.2	1.8	0-5
6	Pan	265	15000	100.0	0	—

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-09-23-59** **Date: 13-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.59	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.22	–

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-23-59**	**Date: 13-07-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements of Roads and Footpath in Ward No.5.	
Agency	:	Sri.Suresh.K, No:06, Ananthpura Village, Singanayakanahalli(P), Yelahanka, Bangalore-560 064.	
Customer's Reference	:	BBMP/EE/BTP/WO/45/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample condition	:	Satisfactory	
Date of Receipt	:	10-07-19	
Sample Type	:	40mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	10-07-19	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	424	424	2.8	97.2	90-100
3	20 mm	5857	6281	41.9	58.1	30-70
4	10 mm	4228	10509	70.1	29.9	10-35
5	4.75 mm	4226	14735	98.2	1.8	0-5
6	Pan	265	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2019-09-23-59** **Date: 13-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.8	
3	Specific Gravity	2.66	–
4	Bulk Density(Loose) (Kg/l)	1.59	–
5	Bulk Density(Compacted) (Kg/l)	1.54	–
6	Water Absorption(%)	0.22	–

Note:
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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2019-09-23-59**	**Date: 12-07-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements of Roads and Footpath in Ward No.5.	
Agency	:	Sri.Suresh.K, No:06, Ananthpura Village, Singanayakanahalli(P), Yelahanka, Bangalore-560 064.	
Customer's Reference	:	BBMP/EE/BTP/WO/45/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	10-07-19	
Sample Type	:	Fine Aggregate	
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption	
Date of test	:	10-07-19	
Total weight taken	:	1000 grams	

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	28	28	2.8	97.2	90-100	90-100	90-100	95-100
3	2.36 mm	55	83	8.3	91.7	60-95	75-100	85-100	95-100
4	1.18 mm	239	322	32.2	67.8	30-70	55-90	75-100	90-100
5	600 micron	205	527	52.7	47.3	15-34	35-59	60-79	80-100
6	300 micron	203	730	73.0	27.0	5-20	8-30	12-40	15-50
7	150 micron	190	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2019-09-23-59** **Date: 12-07-19**

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.5	–
2	Specific Gravity	2.59	–
3	Material finer than 75 micron(%)	6.9	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-09-23-59**	**Date: 16-07-19**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements of Roads and Footpath in Ward No.5.	
Agency	:	Sri.Suresh.K, No:06, Ananthpura Village, Singanayakanahalli(P), Yelahanka, Bangalore-560 064.	
Customer's Reference	:	BBMP/EE/BTP/WO/45/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	15-07-19	
Sample Type	:	Sunvik	
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.	
Date of test:	:	15-07-19	

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

Note:

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2019-09-23-59** **Date: 22-07-19**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads and Footpath in Ward No.5.

Agency : Sri.Suresh.K, No:06, Ananthpura Village, Singanayakanahalli(P), Yelahanka, Bangalore-560 064.

Customer's Reference : BBMP/EE/BTP/WO/45/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 17-07-19

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 17/07/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.01	165.51	2.864	7854	142.1	18.1	18.1	22.6
2	B	100.03	165.49	2.793	7857	145.2	18.5	18.5	23.1
3	C	100.01	165.50	2.815	7854	145.1	18.5	18.5	23.1

Note:

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Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-09-23-59**	**Date: 30/07/2019**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements of Roads and Footpath in Ward No.5.	
Agency	:	Sri.Suresh.K, No:06, Ananthpura Village, Singanayakanahalli(P), Yelahanka, Bangalore-560 064.	
Customer's Reference	:	BBMP/EE/BTP/WO/45/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	25-07-19	
Customer ID	:	Culvert Concrete	
Sample Type /Size	:	150X150X150 mm	
Sample grade/Age	:	M20 / 7 Days Compressive Strength	
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5	
Date of test	:	30/07/2019	

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	23/07/2019	30/07/2019	150.42 X 149.89 X 151.05	22546	8.147	420.2	18.6	18.3
2	Culvert Concrete	M20	23/07/2019	30/07/2019	151.77 X 151.41 X 150.50	22979	8.351	415.7	18.1	
3	Culvert Concrete	M20	23/07/2019	30/07/2019	151.13 X 150.36 X 149.71	22725	8.714	411.9	18.1	

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ಬ.ಬ.ಪಾ.ಪಾ. ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬ.ಬ.ಪಾ.ಪಾ. ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 20/08/2019

Lab ID	:	CP-2019-09-23-59
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements of Roads and Footpath in Ward No.5.
Agency	:	Sri.Suresh.K, No:06, Ananthpura Village, Singanayakanahalli(P), Yelahanka, Bangalore-560 064.
Customer's Reference	:	BBMP/EE/BTP/WO/45/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	25-07-19
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	23/07/2019	20/08/2019	149.55 X 149.64 X 151.88	22380	8.032	518.7	23.2	23.2
2	Culvert Concrete	M20	23/07/2019	20/08/2019	151.13 X 151.35 X 149.78	22874	8.463	525.9	23.0	
3	Culvert Concrete	M20	23/07/2019	20/08/2019	149.22 X 150.79 X 149.91	22501	8.535	528.0	23.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2019-09-23-59** **Date: 30/07/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads and Footpath in Ward No.5.

Agency : Sri.Suresh.K, No:06, Ananthpura Village, Singanayakanahalli(P), Yelahanka, Bangalore-560 064.

Customer's Reference : BBMP/EE/BTP/WO/45/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	23/07/2019	30/07/2019	150.62 X 151.09 X 151.29	22757	8.147	427.2	18.8	18.8
2	Culvert Concrete	M20	23/07/2019	30/07/2019	150.73 X 151.24 X 149.07	22795	8.351	431.3	18.9	
3	Culvert Concrete	M20	23/07/2019	30/07/2019	150.62 X 150.37 X 149.55	22650	8.714	424.0	18.7	

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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R KARTHIK RECHAN
Authorized Signatory
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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-23-59 **Date: 20/08/2019**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Improvements of Roads and Footpath in Ward No.5.

Agency : Sri.Suresh.K, No:06, Ananthpura Village, Singanayakanahalli(P), Yelahanka, Bangalore-560 064.

Customer's Reference : BBMP/EE/BTP/WO/45/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 25-07-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 20/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M20	23/07/2019	20/08/2019	151.53 X 150.96 X 150.61	22875	8.032	537.2	23.5	23.0
2	Culvert Concrete	M20	23/07/2019	20/08/2019	150.57 X 151.27 X 151.61	22776	8.463	505.5	22.2	
3	Culvert Concrete	M20	23/07/2019	20/08/2019	149.40 X 151.86 X 149.51	22688	8.535	532.2	23.5	

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